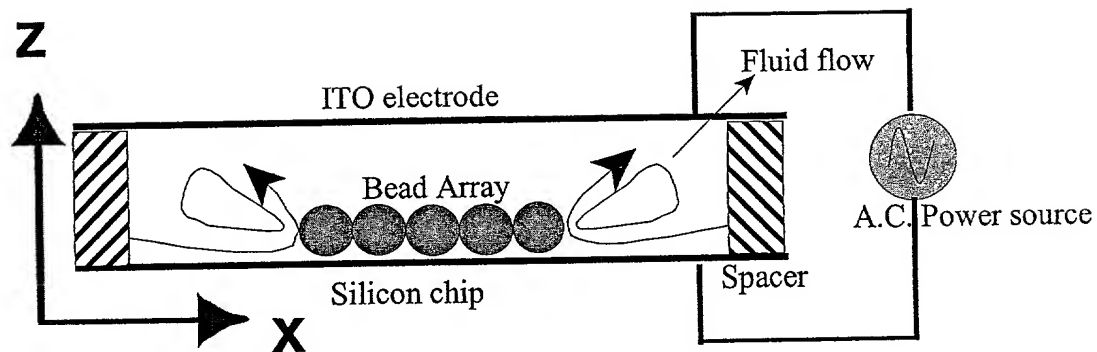


Fig. 1



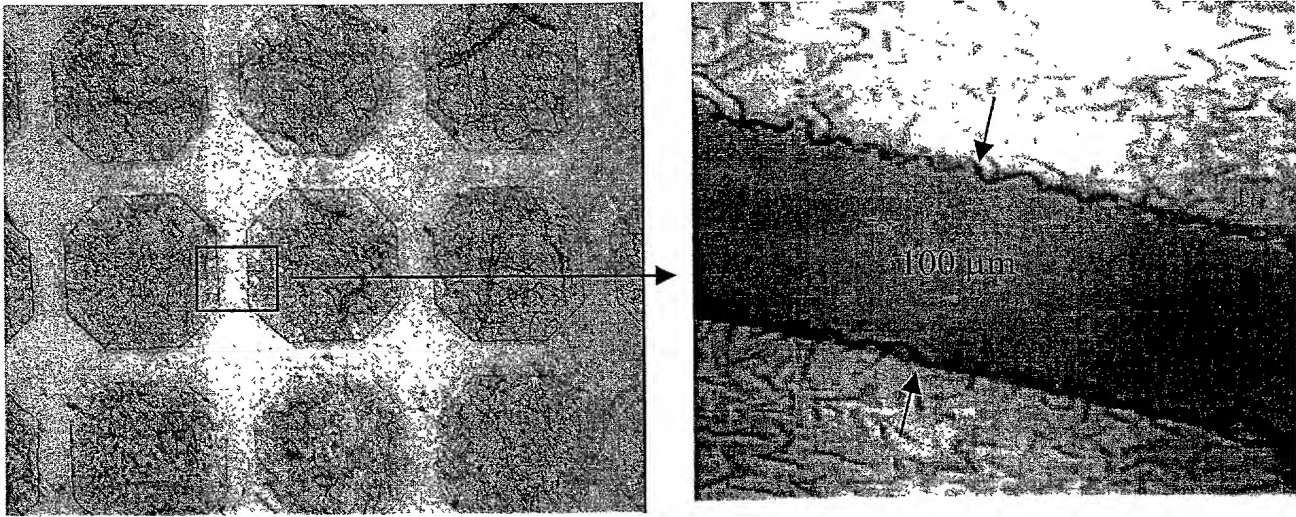


Fig. 2(a)

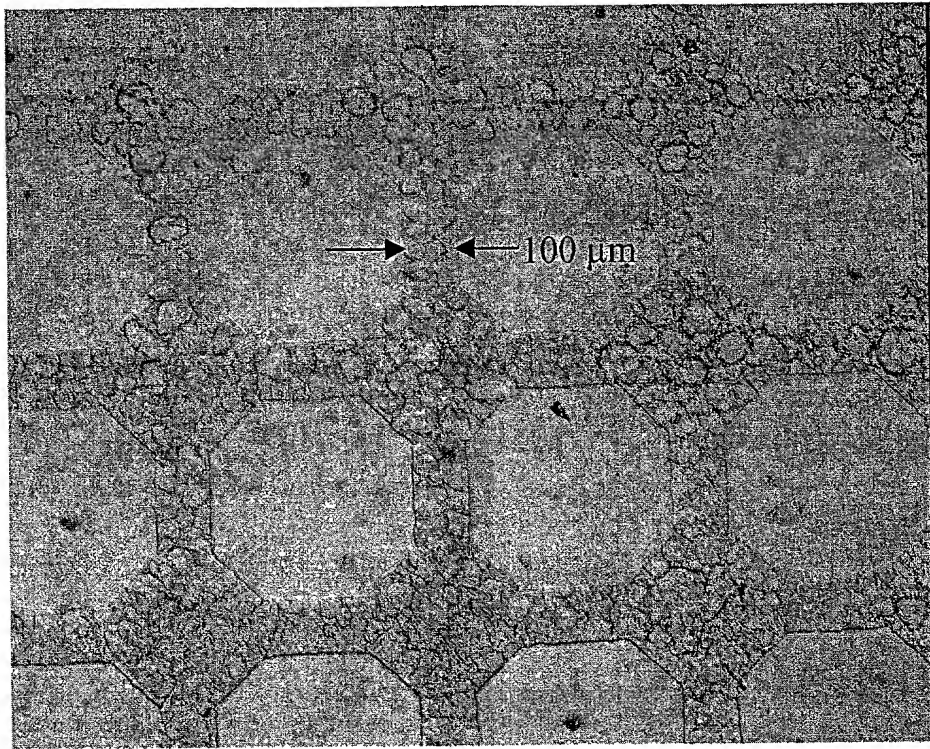


Fig. 2(b)

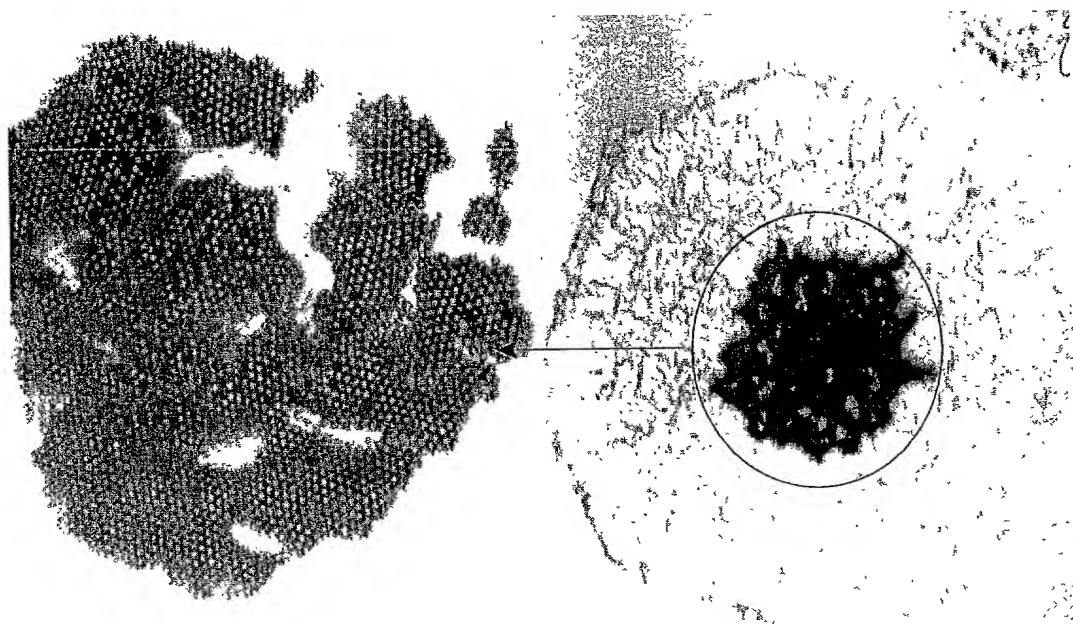


Fig. 3(a)

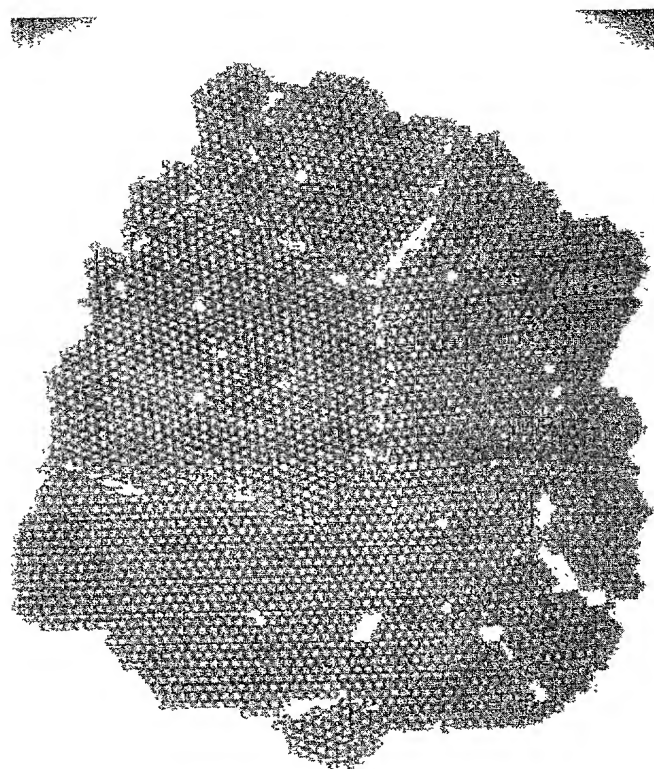


Fig. 3(b)

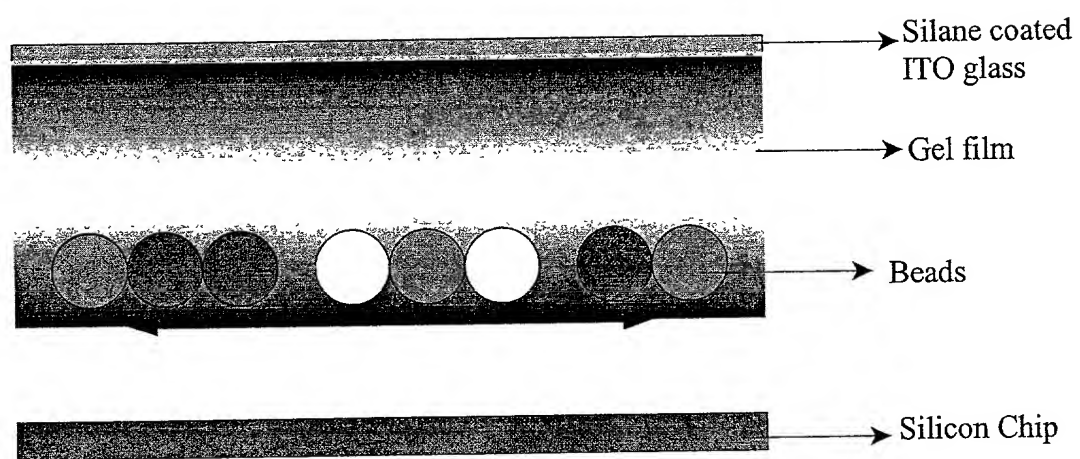
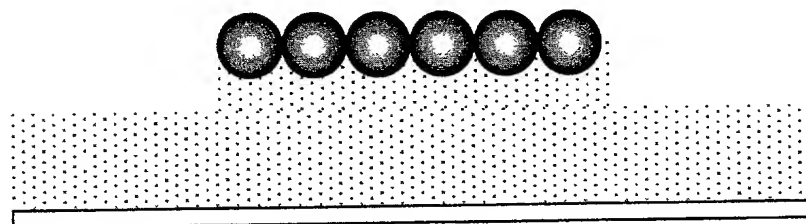
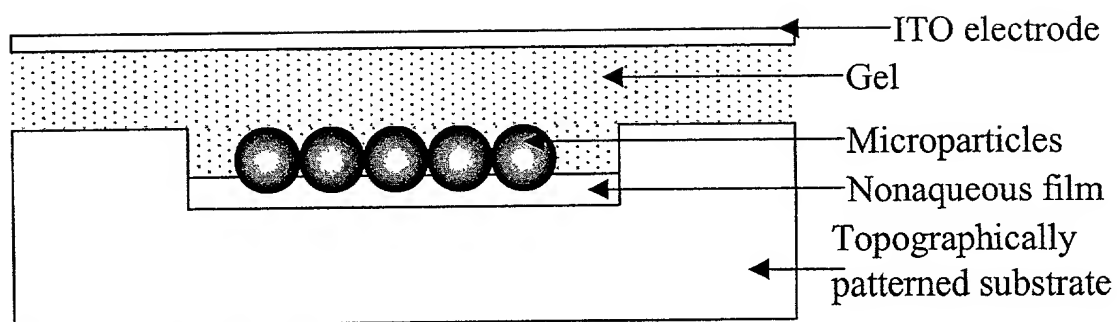


Fig. 4(a)



Flip gel with exposed microparticles

Fig. 4(b)

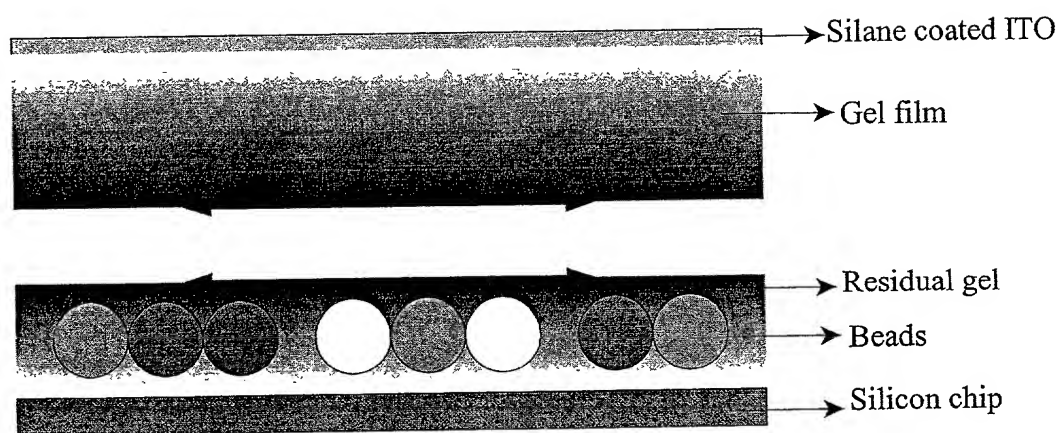


Fig. 5

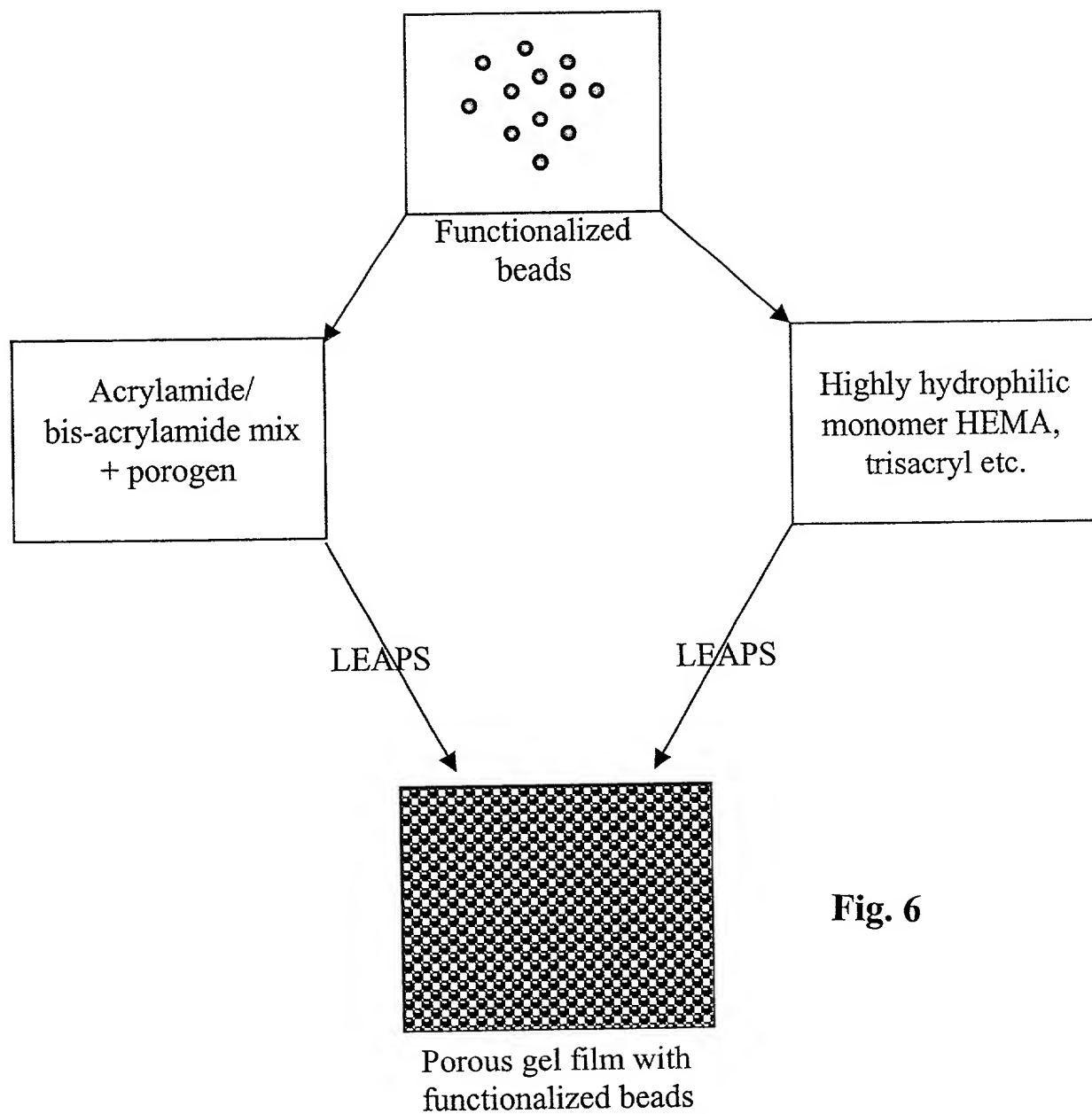


Fig. 6

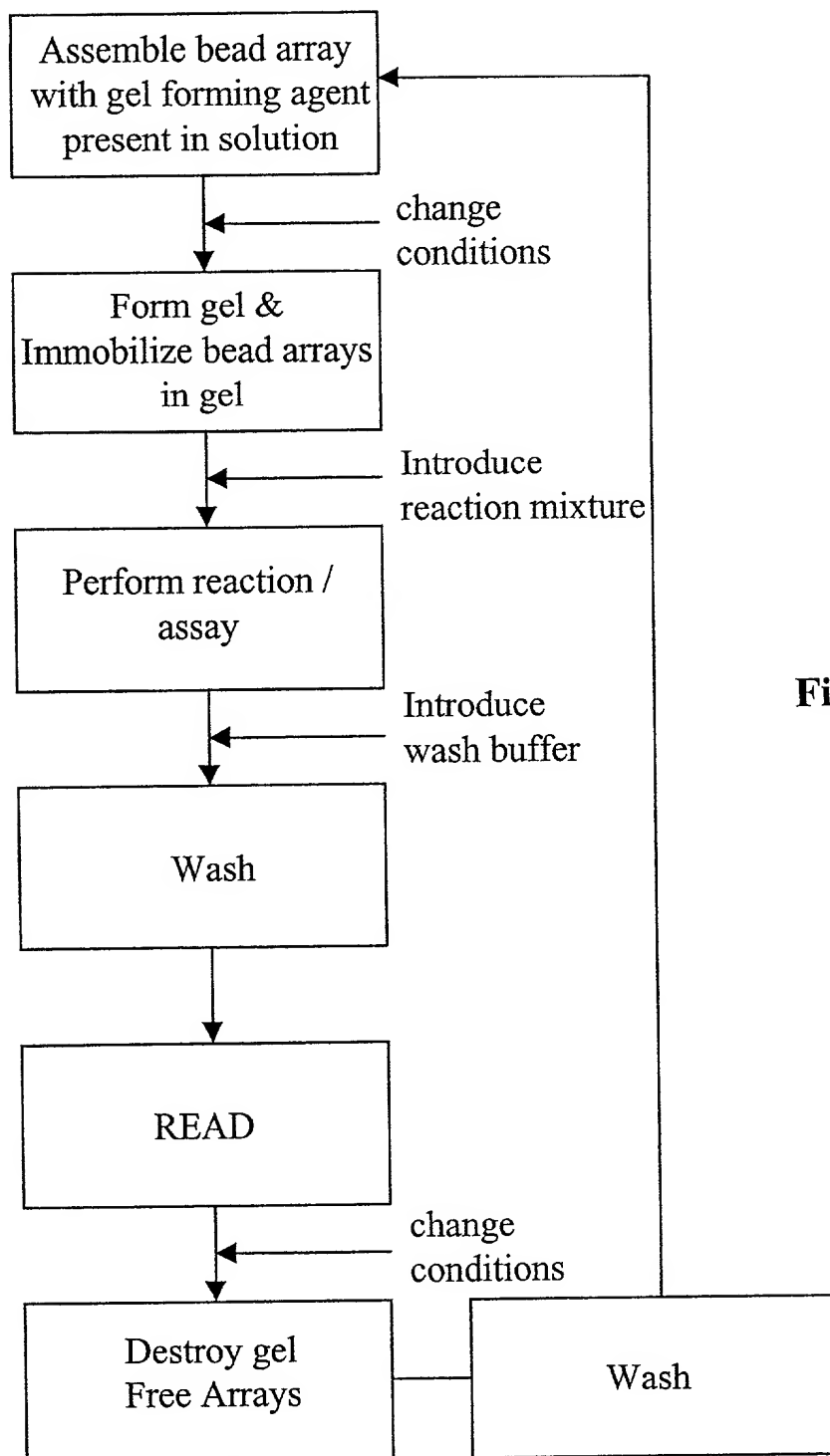


Fig. 7

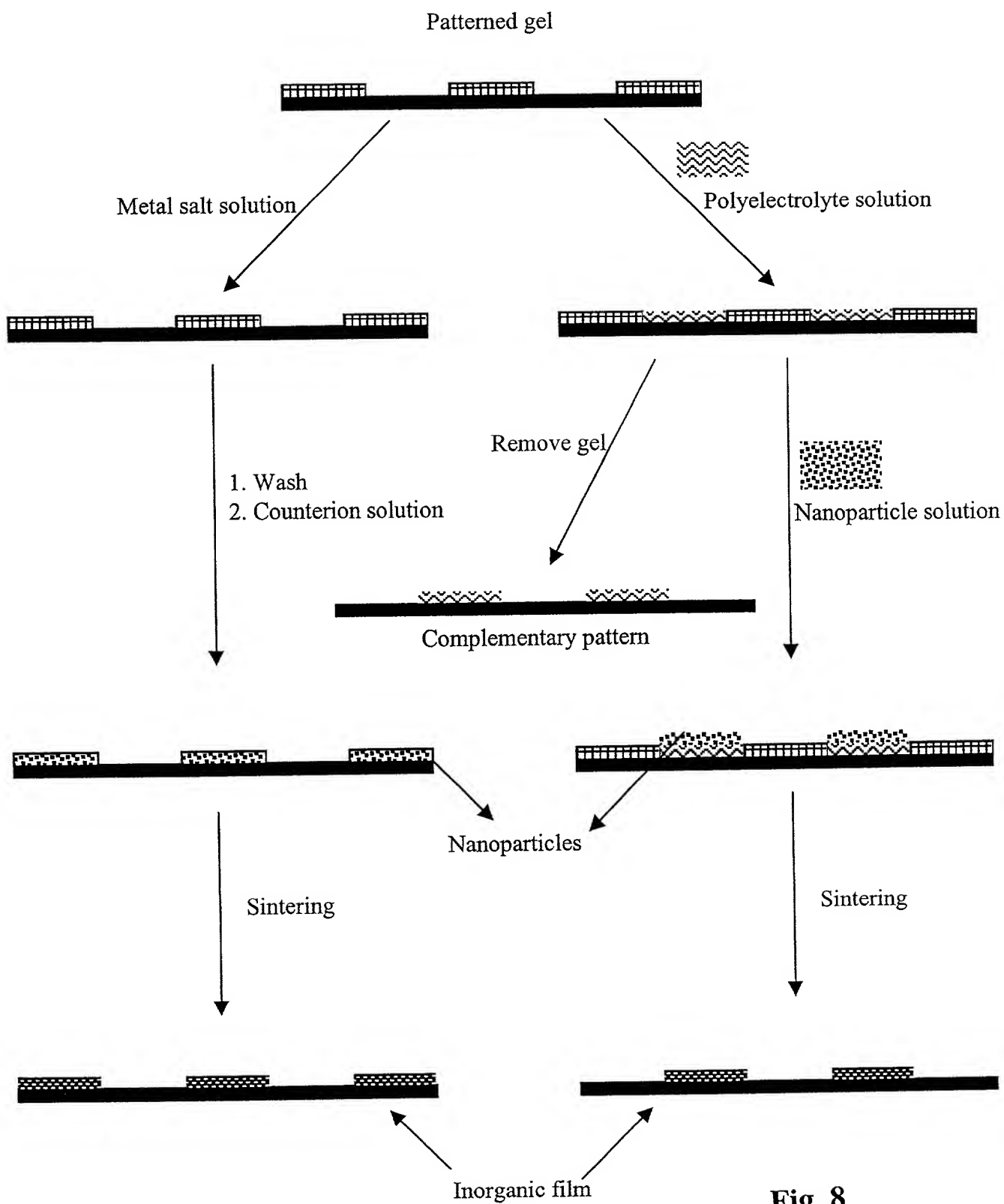


Fig. 8

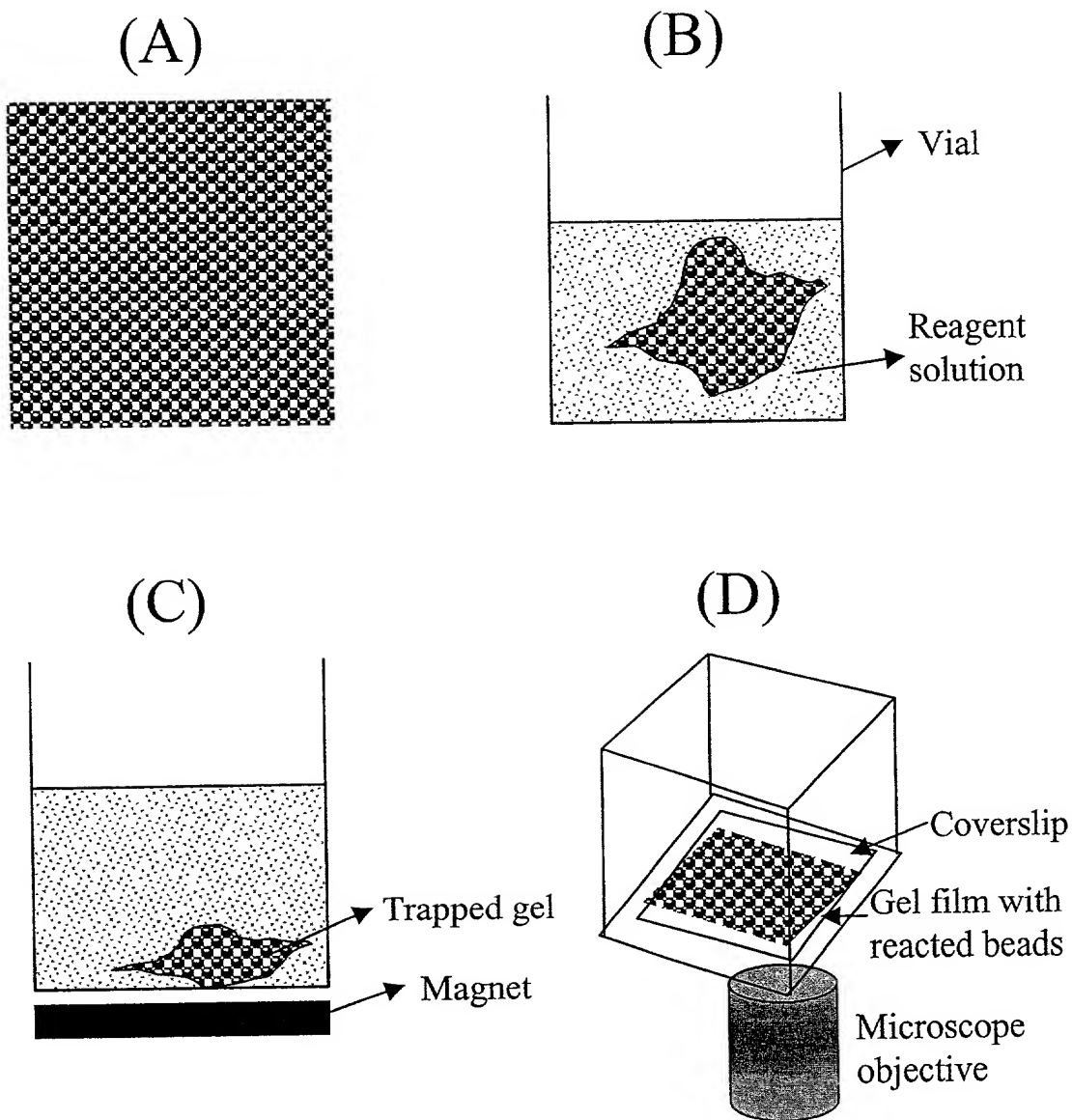
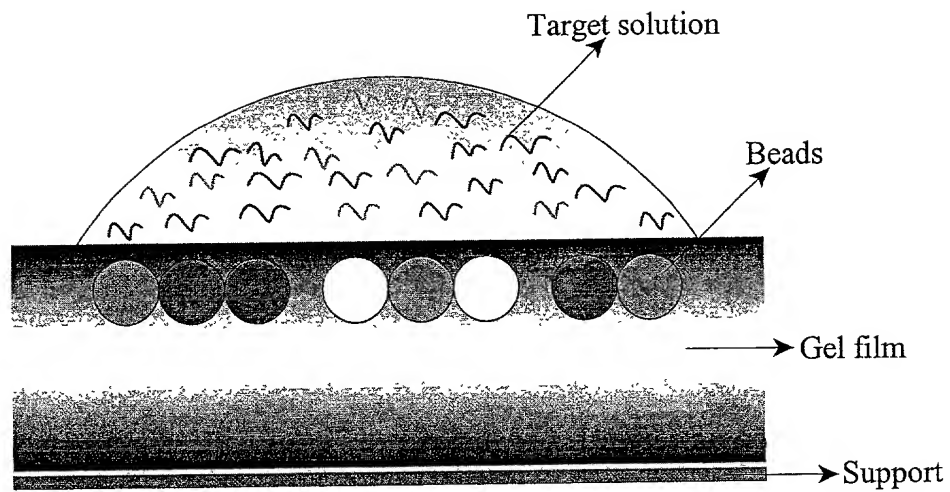


Fig. 9



Assay Format

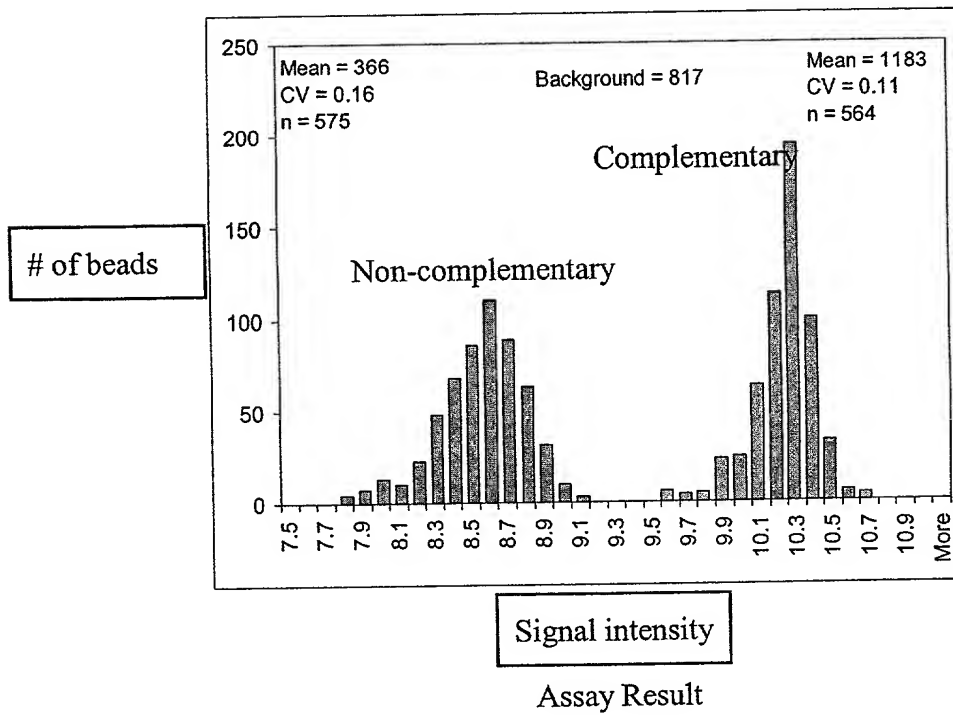


Fig. 10

Fig. 11

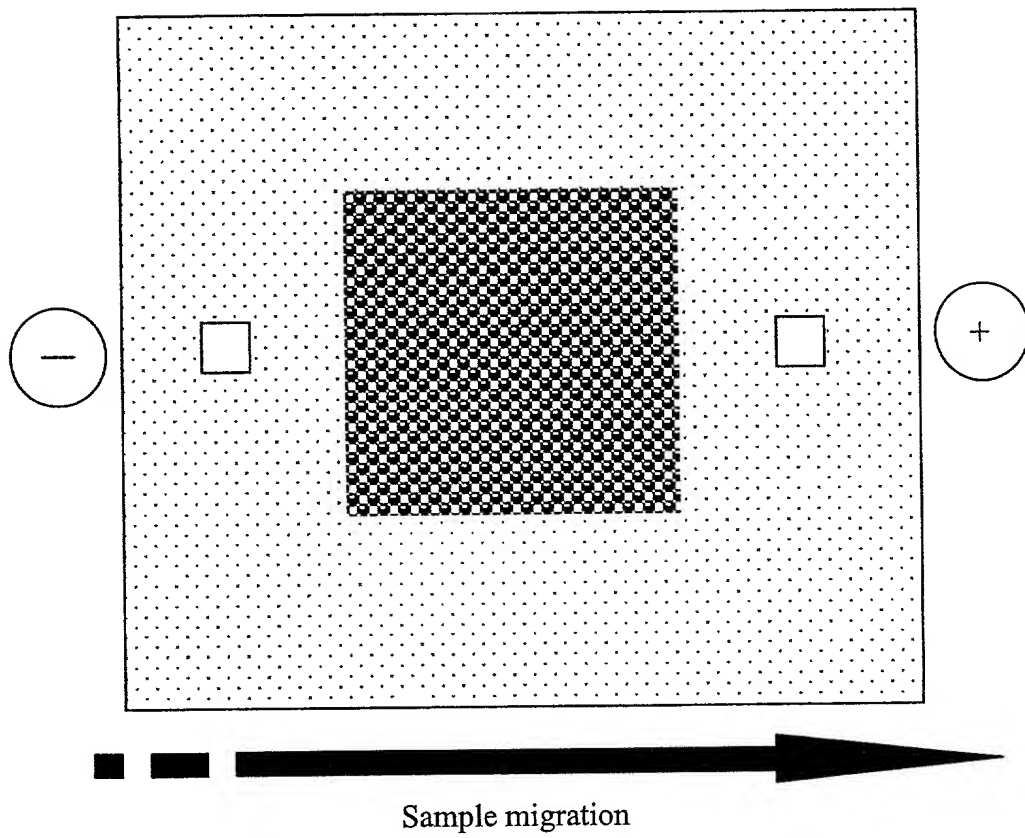
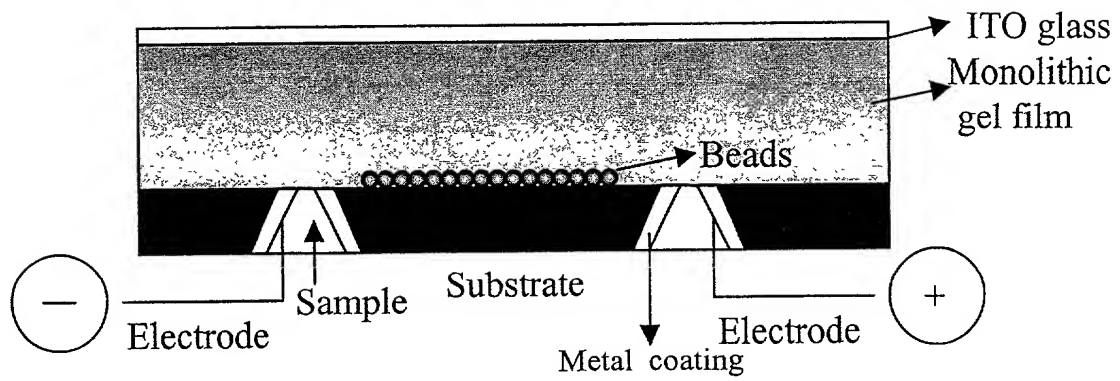
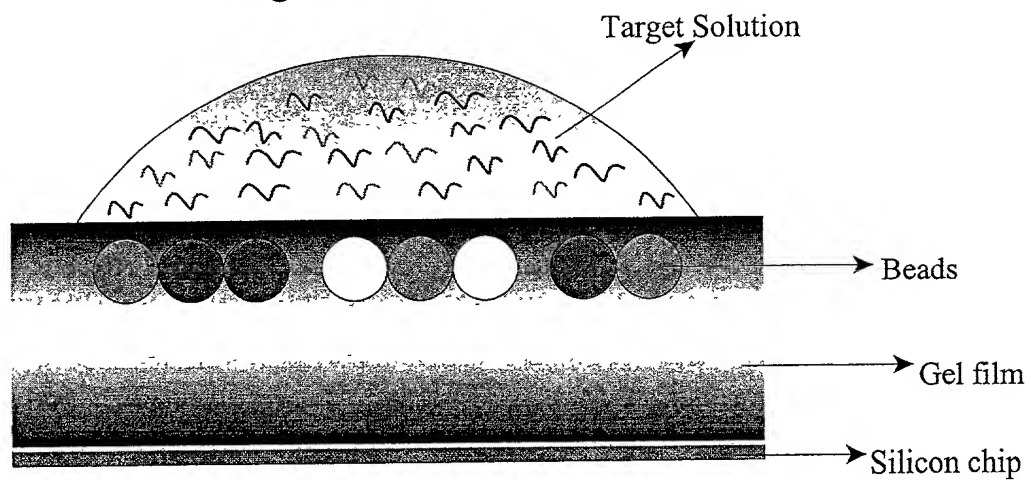
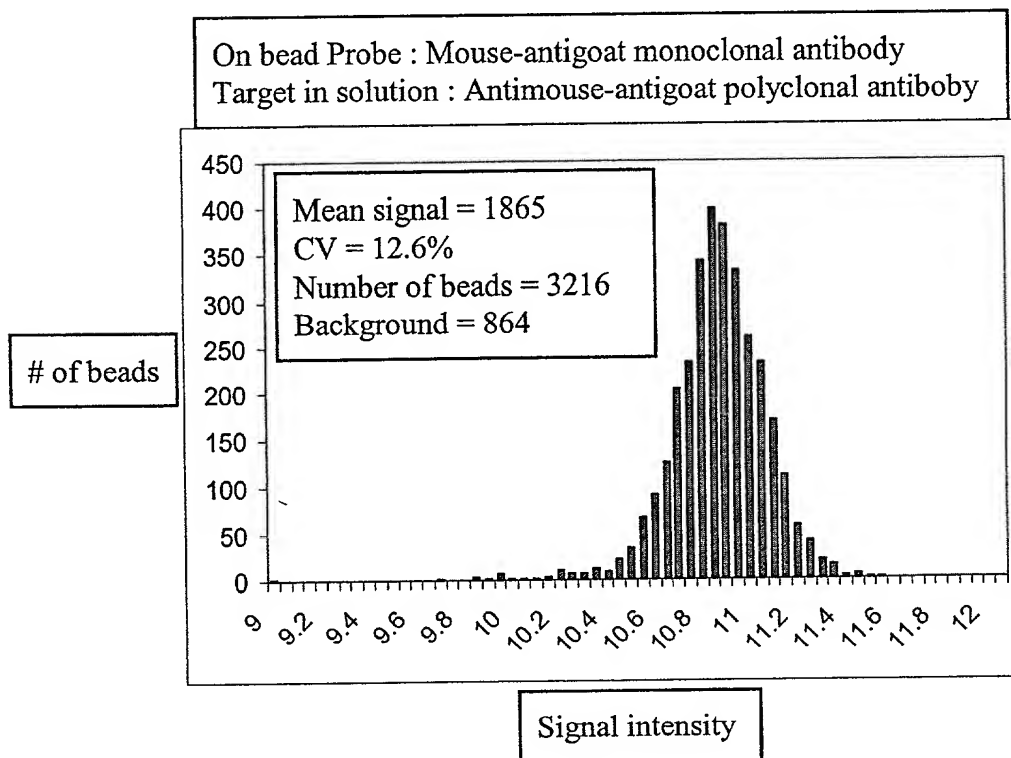


Fig. 12

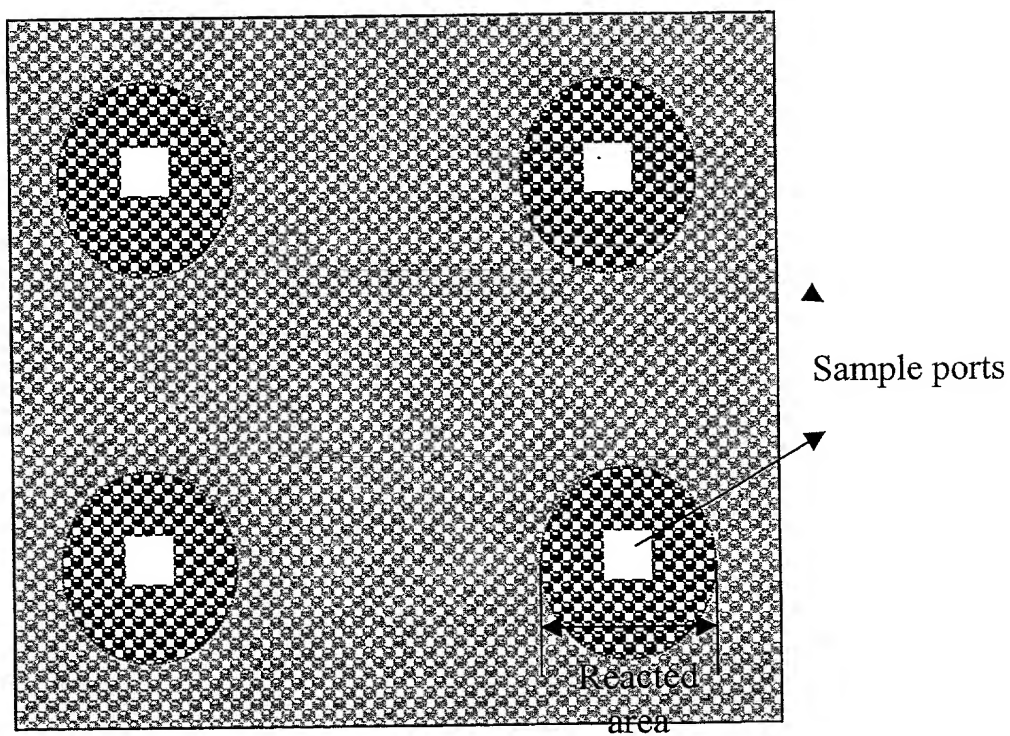
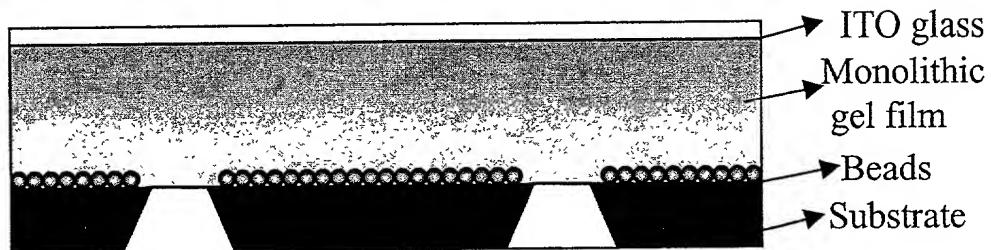


Assay Format



Assay result

Fig. 13



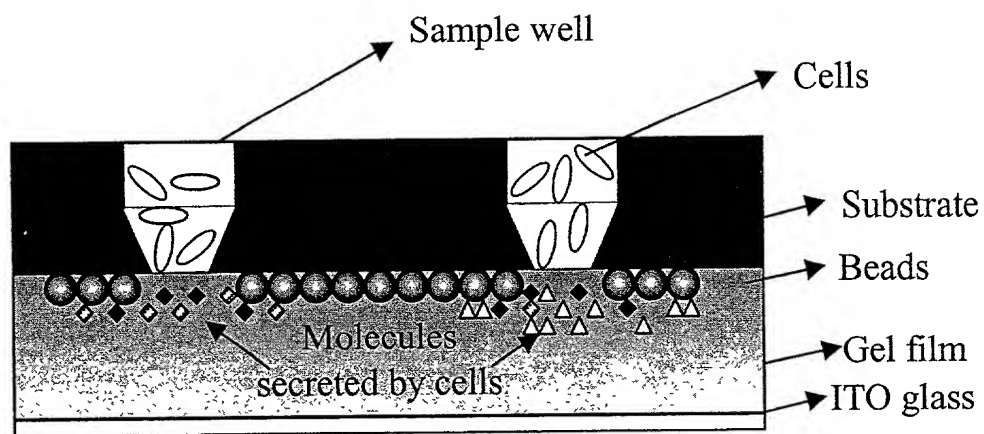


Fig. 14

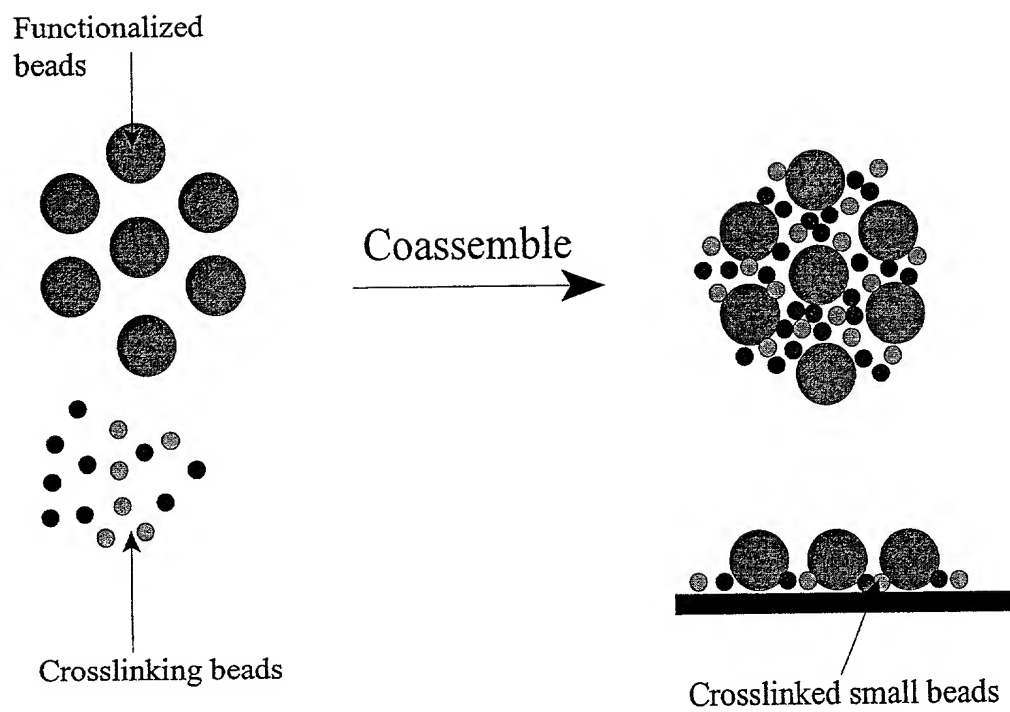


Fig. 15

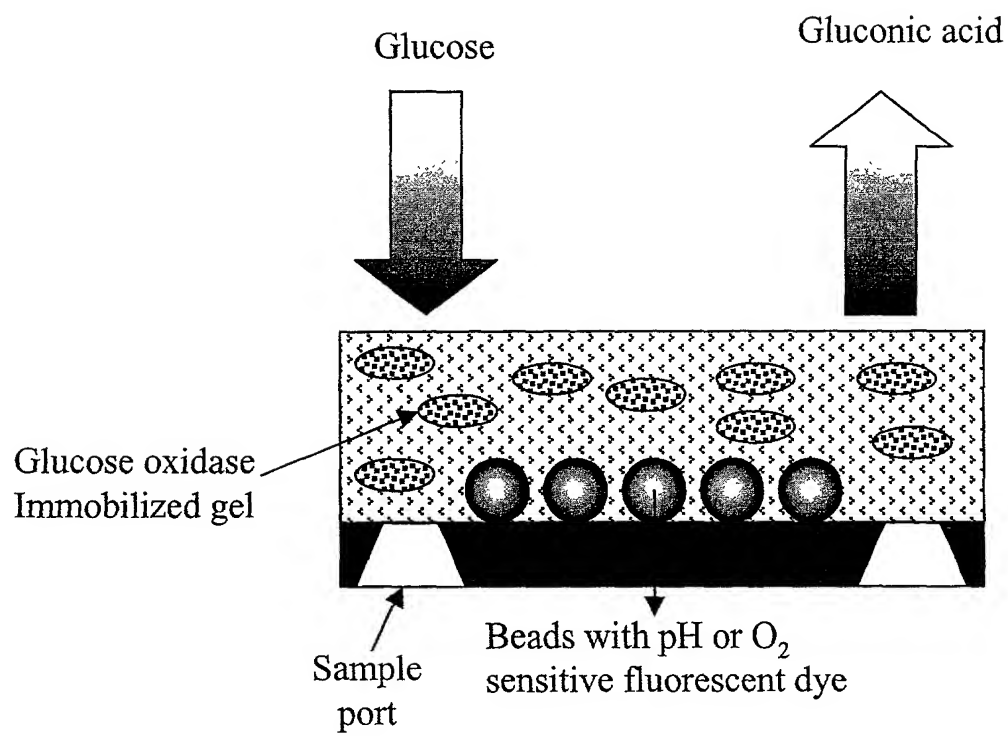


Fig. 16

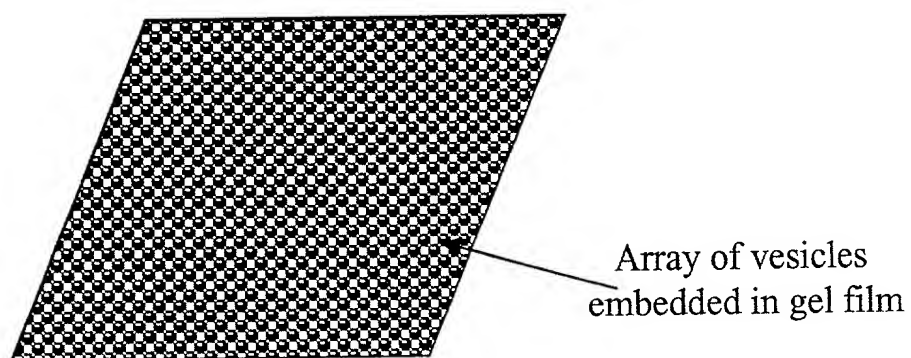
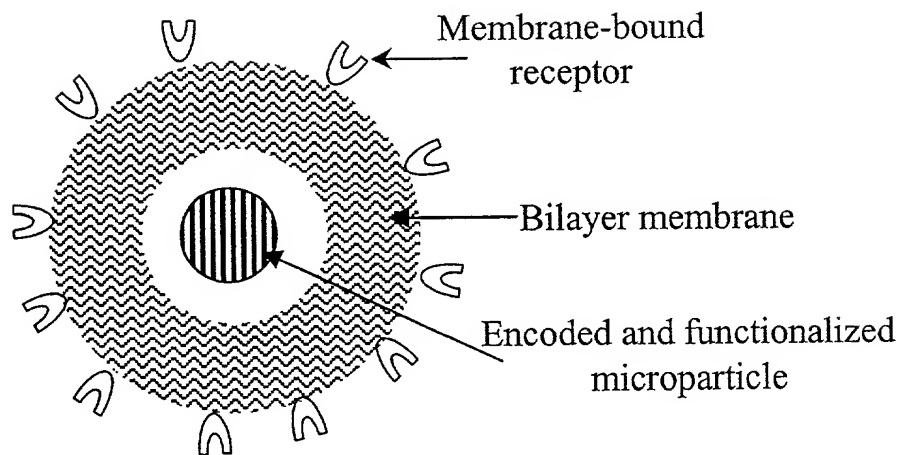
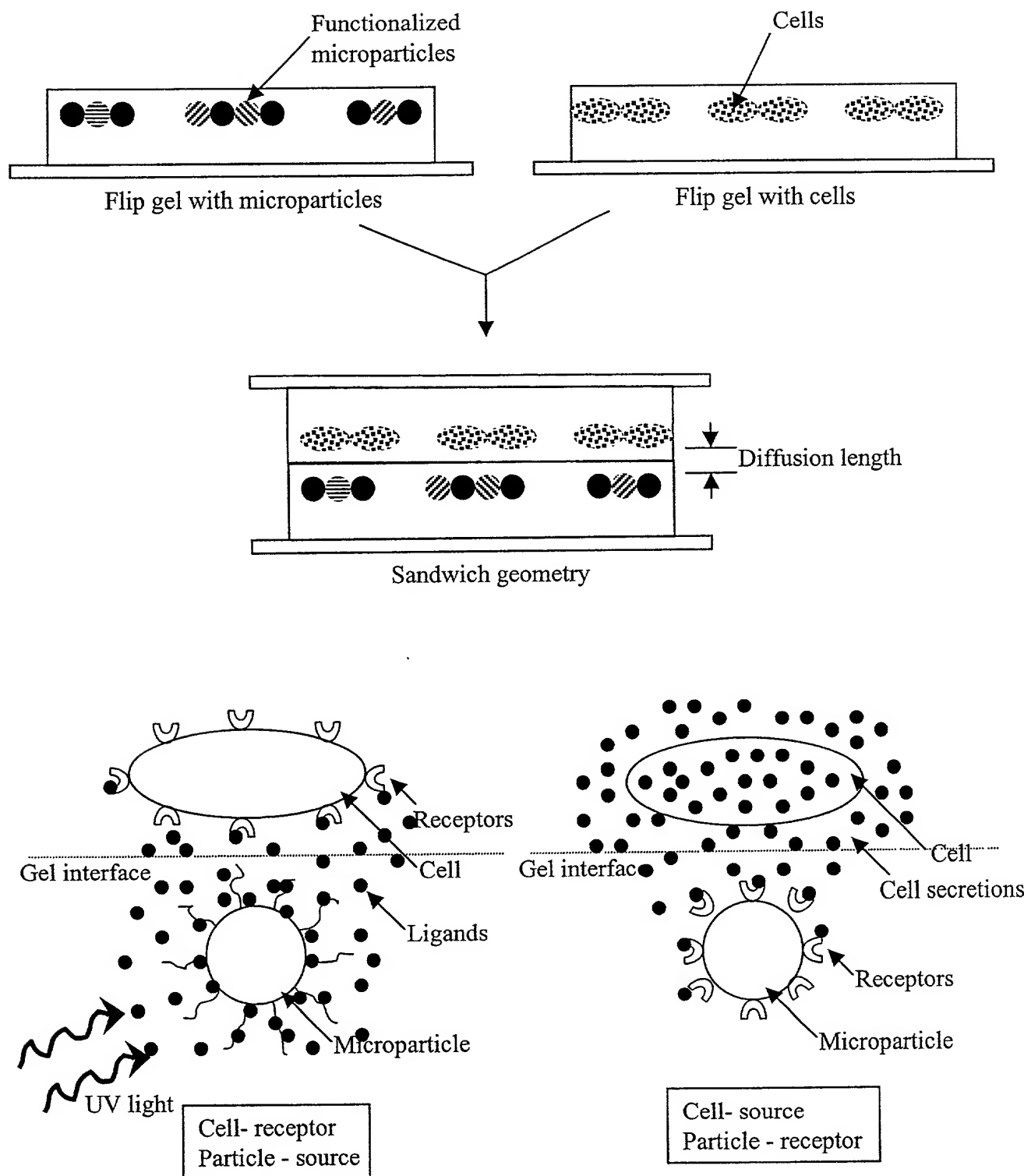
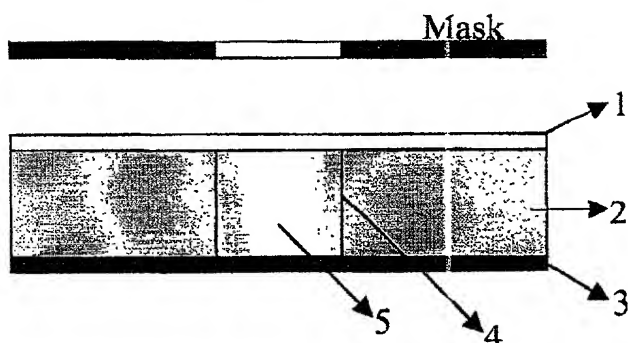
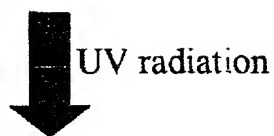


Fig. 17

Fig. 18



(a)



1. Cover slip
2. Labeled target solution surrounding the gel
3. The Si chip
4. Gel- solution interface
5. The gel plug

(b)

Fab diffusion
Gel A10B3-90, Gel size D=832 μm

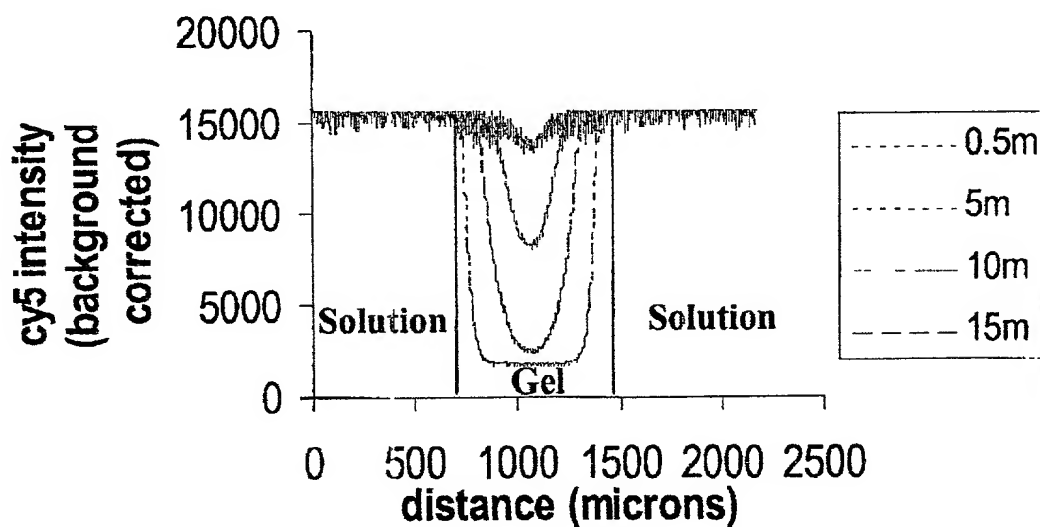


Fig. 19